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In the claims:

- 1. (Currently Amended) A distillation process comprising providing to an evaporator a feed stream comprising a mixture of a lower boiling point solvent and a higher boiling point target compound to an evaporator, flashing off from said mixture a multi-component vapor containing said solvent and said target at a temperature of said mixture below the boiling point of said target, separating said target compound from said multi-component vapor, and maintaining said-temperature of said mixture in said evaporator by providing to said evaporator a dilutive solvent comprising additional amounts of said solvent in sufficient amount to maintain said temperature of said mixture in said evaporator during said step of flashing off.
- 2. (Previously presented) A process according to claim 1 wherein said target is mixed with a non-volatile contaminate or a contaminate having a boiling point higher than that of said target, which remains in said evaporator.
- 3. (Previously presented) A process according to claim 2 further comprising the step of providing said multi-component vapor to means for separating said target from said solvent.
- (Original) A process according to claim 3 wherein said means for separating comprises a distillation tower.
- 5. (Original) A process according to claim 3 wherein said solvent is water and said target is ethylene glycol.
 - 6. (Original) A process according to claim 3 wherein said target is an amine.
 - 7. (Cancelled)
- 8. (Previously presented) A process according to claim 1 further comprising removing bottoms from said evaporator, cooling said bottoms and separating sediment from supernatant, and adding said supernatant to said evaporator.
- 9. (Withdrawn) A target compound obtained by a process comprising providing to an evaporator a mixture of a lower boiling point solvent and said target compound, wherein the boiling point of said target compound is higher than that of said solvent, flashing off from said mixture a multi-component vapor containing said solvent and said target compound at a temperature of said mixture that is below the boiling

point of said target compound, providing a feed stream of said mixture to said evaporator, maintaining said temperature of said mixture by providing to said evaporator a dilutive solvent comprising additional amounts of said solvent, and separating said target compound from said solvent to provide said target compound.

- 10. (Withdrawn) A target compound according to claim 9 comprising ethylene glycol.
 - 11. (Withdrawn) A target compound according to claim 9 comprising an amine.
- 12. (Previously presented) A method for separating a target compound from a mixture of said target compound and a solvent, wherein the boiling point of said target compound is higher than the boiling point of said solvent, said method comprising heating said mixture to a temperature lower than the boiling point of said target compound to provide a multi-component vapor comprising said target compound and said solvent, providing said multi-component vapor to a distillation column, condensing vapors passing up said distillation column to provide a condensed stream, and providing said condensed stream to said mixture.
- 13. (Previously presented) A method according to claim 12 comprising providing an amount of said condensed stream to said mixture adequate to maintain the boiling point of said mixture at said temperature.
- 14. (Previously presented) A method according to claim 12 wherein said solvent is water and said target compound is ethylene glycol.
- 15. (Previously presented) A method according to claim 14 wherein said temperature is about 260 degrees Fahrenheit.
 - 16. (Previously presented) Apparatus comprising:

evaporator means for evaporating a mixture of lower boiling components and higher boiling components received as a liquid in a feed stream;

distillation means for separating lower boiling components from higher boiling components received from said evaporator means; and

means for providing said lower boiling components from said distillation means to said evaporator.

17. (Previously presented) Apparatus according to claim 16 wherein said means for providing comprises a pump for supplying said lower boiling components to said evaporator.

18. (Previously presented) Apparatus according to claim 17 further comprising a re-circulator for re-circulating said mixture in said evaporator means and said means for providing further comprises connection from said pump to said re-circulator.